MEGALODON CALIBRATION CHECK LIST (APECS 2.01)

Name: _____   Date of calibration: ____/____/____

Rig ID: _____

Initials   **Note:** Initial **ONLY** when task has been performed.

_____1.   Analyze Oxygen Cylinder _____% (Record Percentage).

_____2.   Get approximate height above sea level. _____ (feet/meters).

_____3.   Power on primary and secondary power supplies.

_____4.   Push **Menu** Buttons on Both handsets till "**SET OXYGEN PERCENTAGE**" is displayed. *The current percentage in the system is displayed.*

                 default percentage is 99% (Adjust if necessary to equal cylinder oxygen percentage).

_____5.   Push **CONFIRM** button to enter adjustment screens.

_____6.   Push **MENU** buttons to step through the range. (One percent increments).

_____7.   Push **CONFIRM** buttons to lock in the desired percentage.

_____8.   Push **Menu** Buttons on Both handsets till "**CALIBRATE**" is displayed.

_____9.   Push **CONFIRM** buttons to enter calibration screens.

_____10.   When prompted on screens "ARE YOU SURE "push **CONFIRM** buttons.

_____11.   When prompted on screens "ARE YOU REALLY SURE "push **CONFIRM** buttons again. *(You have two minuets to reach this point or you will be*

                 timed out. If this happens simply turn off and back on the power supplies and pick up at point 7).

_____12.   **CALIBRATE ALTITUDE** screen is displayed. The initial screen shows **"Current PO2 =.21"** a prompt is displayed **> 000 FT/00 M** and shows

                 "**= .21 .98**." (The .21 is the low set point PO2 at 0ft/mtrs (sea level) and the .98 assumes 99% O2 for the high set point of altitude calibration).

                 These figures will vary according to last altitude saved and oxygen percentage set.

_____13.   If you are not at sea level push the **MENU** buttons and scroll through the screens till the desired altitude is achieved. Pushing the **CONFIRM**

                 buttons will lock in the selected altitude zone for the calibration.

_____14.   Confirm you are **AT AMBIENT AIR?** *(Nothing should be connected to the head at this point the head should be sitting in ambient air).* Push the

                 CONFIRM buttons if this is correct.

_____15.   Connect the head only calibration Kit.

_____16.   Turn on the oxygen supply allowing O2 to flow over the cells. Watch the **Millivolt readings** on the displays they should be **rising.**

_____17.   Confirm you are **AT MAXIMUM OXYGEN?** *Once the millivolt readings have stabilized and the Oxygen analyzer is reading the same as the*

                 percentage of oxygen in the cylinder (this may take several minuets) Press the **COMFIRM** buttons.

_____18.   You will be Prompted **CONFIRM TO SAVE.** Again press the **CONFIRM** buttons.

_____19.   The screen should now say **CALIBRATION DATA SAVED.**

_____20.   **You have now calibrated your system turn off the oxygen supply and remove the head only calibration kit.**

_____21.   Attach to and continue with Pre dive check sheet.

Diver:_____

Calibration is important and should not be rushed.

"Bad Data in = Bad Data Out" (Leon Scamahorn CEO Innerspace systems)